

ONLINE-REGISTRATION  
[WWW.KISPI.UZH.CH/ECHOCOURSE](http://WWW.KISPI.UZH.CH/ECHOCOURSE)

# 6<sup>th</sup> Basic Course of Paediatric Echo- cardiography



Organised by the Imaging Working Group and Cardiovascular Morphology Working Group of the Association for European Paediatric and Congenital Cardiology AEPC, in collaboration with the Swiss Society for Neonatology.

**University Children's Hospital Zurich**  
**2019, 27<sup>th</sup> – 29<sup>th</sup> June**



2019, 27<sup>th</sup> – 29<sup>th</sup> June: University Children's Hospital Zurich, Switzerland

Dear Colleagues

Welcome to the 6th Basic Course of Echocardiography of the AEPC (Association of European Paediatric and Congenital Cardiology), held for the third time here in Zurich.

Echocardiography is the most important working instrument for every paediatric cardiologist, as it provides fundamental information on the anatomy and physiology of every normal and malformed heart. In neonatology and intensive care echocardiography is gaining importance for the bedside evaluation of the haemodynamic status and the clinical management of the patients.

The course offers lectures on physics and practical aspects of echocardiography, and is based on a systematic approach to the evaluation of the normal heart and of the most common congenital heart lesions. Anatomical specimen demonstration, life cases, lectures on the use of echocardiography in neonatology and a hands-on session for scanning children and neonates will complete the program.

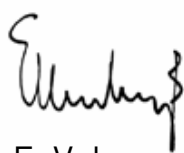
A final mock examination will test the efficacy of the course.

The course represents the first step in the accreditation process for the EACVI (European Association of Cardiovascular Imaging) and AEPC examination in congenital echocardiography, as well as for the Targeted Neonatal Echocardiography (TNE) accreditation.

We are looking forward to welcome a large public of young paediatric cardiologists in training, neonatologists, paediatric intensivists and interested paediatricians.



A. Cavigelli-Brunner



E. Valsangiacomo Büchel



# Basic Course of Paediatric Echocardiography

Online-registration: [www.kispi.uzh.ch/echocourse](http://www.kispi.uzh.ch/echocourse)

## Course directors:

- **Prof. E. Valsangiacomo Buechel**, Children's Hospital Zurich
- **Dr. A. Cavigelli-Brunner**, Children's Hospital Zurich

## Faculty:

- **Romaine Arlettaz Mieth**, Zurich
- **Tara Bharucha**, Southampton
- **Barbara Burkhardt**, Zurich
- **Anna Cavigelli-Brunner**, Zurich
- **Matthias Greutmann**, Zurich
- **Katarina Hanséus**, Lund
- **Lucile Houyel**, Paris
- **Ornella Milanesi**, Padova
- **Owen Miller**, London
- **Angela Oxenius**, Zurich
- **Martin Schweiger**, Zurich
- **Cécile Tissot**, Geneva
- **Dominik Stambach**, St. Gallen
- **Emanuela Valsangiacomo Buechel**, Zurich
- **Håkan Wåhlander**, Göteborg
- **Roland Weber**, Zurich



# Programme

## Thursday, 27<sup>th</sup> June: How to start

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13:00 **Registration**

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13:30 **Welcome address** E. Valsangiacomo, A. Cavigelli

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### **Basics of echocardiography and the normal heart I**

Chairs: E. Valsangiacomo, A. Cavigelli

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13:45 **Physics of ultrasound** R. Weber

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14:00 **Equipment, probes and images** R. Weber

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14:20 **The segmental sequential approach  
in echocardiography** A. Cavigelli

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14:40 **The normal examination / minimal dataset** O. Miller

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15:20 **Questions and discussion**

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15:30 Coffee Break

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### **Specimens presentation** Chair: H. Wählander

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16:00 **The normal heart, sequential analysis  
Anatomic correlation with echocardiography** L. Houyel

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16:40 **Questions and discussion**

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### **Basics of echocardiography and the normal heart II**

Chairs: O. Milanesi, R. Weber

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16:45 **Colour, pulsed and continuous Doppler** K. Hanséus

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17:00 **How to measure ventricular function** E. Valsangiacomo

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17:15 **Questions and discussion**

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Walk to the University

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18:00 **Master Lecture**  
**From M-mode to 3D-imaging: The journey of  
echocardiography in modern cardiology** M. Greutmann  
Aula G201 Main building, University of Zürich,  
Rämistrasse 71, 8006 Zürich

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19:00 **Social evening: Dinner and get together**

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## Friday, 28th June: From normal to abnormal

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8:30 **Life case demonstration (normal)** R. Weber  
Chair: E. Valsangiacomo

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**Specimens presentation** Chair: T. Bharucha

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9:15 **Anatomo/pathologic correlation with echocardiography** L. Houyel

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10:00 Coffee Break

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**The abnormal heart**

Chairs: K. Hanséus, A. Oxenius

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10:30 **How to measure AO and Pulmonary valve** K. Hanséus

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10:50 **Shunts - my approach to the dilated left ventricle** D. Stambach

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11:10 **Shunts - my approach to the dilated right ventricle** B. Burkhardt

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11:30 **The AV valves - morphology and function** O. Milanesi

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11:50 **Systemic and venous anomalies** H. Wählander

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12:10 **Echo measurements and pitfalls** O. Miller

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12:30 **Echo in the ICU** C. Tissot

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12:50 **Questions and discussion**

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13:00 Lunch

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**Neonatal echocardiography** Chairs: R. Weber, C. Tissot

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14:00 **Evaluation of the PDA** B. Burkhardt

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14:20 **The premature infant with arterial hypotension** R. Arlettaz

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14:40 **Persistent pulmonary hypertension of the newborn** C. Tissot

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15:00 **Questions and discussion**

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15:10 Coffee break

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Walk to the EchoLab

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**Hands-on sessions**

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16:15 **Hands-on Session Neonatology**, Neonatology Unit, University Hospital

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16:15 **Hands-on Session Paediatric**, EchoLab, Children's Hospital

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18:00 **Enjoy the evening in Zurich**

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## Saturday, 29<sup>th</sup> June: More congenital heart disease

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9:00 **Morning lecture**  
**What the surgeon needs to know** M. Schweiger

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### **Practical approach to CHD - Cases and Theory**

Chairs: O. Miller, O. Milanesi

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9:20 **True or artifact?** T. Barucha

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9:50 **Ventricular septal defect** D. Stambach

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10:05 **Atrioventricular septal defect** T. Barucha

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10:20 **Tetralogy of Fallot** A. Oxenius

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10:35 **Transposition of the great arteries** H. Wähländer

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10:50 **Questions and discussion**

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11:00 Coffee

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### **Case demonstration**

Chairs: A. Cavigelli, H. Wähländer

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11:30 **Neonatology** R. Arlettaz

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11:45 **Aortic arch** A. Oxenius

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12:00 **Single ventricle** O. Milanesi

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12:15 **Mock examination** O. Miller

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13:00 **Conclusion**  
E. Valsangiacomo, A. Cavigelli

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# General Information

## Organisation:

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**Online registration:** [www.kispi.uzh.ch/echocourse](http://www.kispi.uzh.ch/echocourse)

**Registration deadline: May 31<sup>th</sup> 2019**

<b>Fees</b>	<b>before May 1<sup>st</sup></b>	<b>after May 1<sup>st</sup></b>
AEPC Junior members (<38y)	CHF 250	CHF 350
Ordinary AEPC members	CHF 450	CHF 550
SSN members	CHF 450	CHF 550
Non AEPC members	CHF 600	CHF 700

Registration fees include the course and hands-on sessions, as well as all food and beverages during coffee and lunch breaks. The social evening on Thursday night is included as well.

## **Credits** (processing):

- SSN - Swiss Society for Neonatology
- SGP - Swiss Society of Paediatrics
- SGPK - Swiss Society of Paediatric Cardiology

2019, 27<sup>th</sup> – 29<sup>th</sup> June: University Children's Hospital Zurich, Switzerland

## Under the patronage of:



AEPC



Schweizerische Gesellschaft  
für Pädiatrische Kardiologie  
(SGPK)



University of  
Zurich<sup>UZH</sup>



**EACVI**  
EUROPEAN ASSOCIATION OF  
CARDIOVASCULAR  
IMAGING  
A Registered Branch of the ESC



ssp sgp

SWISS SOCIETY OF PAEDIATRICS  
Ihre Ärztinnen und Ärzte für Kinder und Jugendliche  
Les médecins de vos enfants et adolescents  
I medici dei vostri bambini e adolescenti



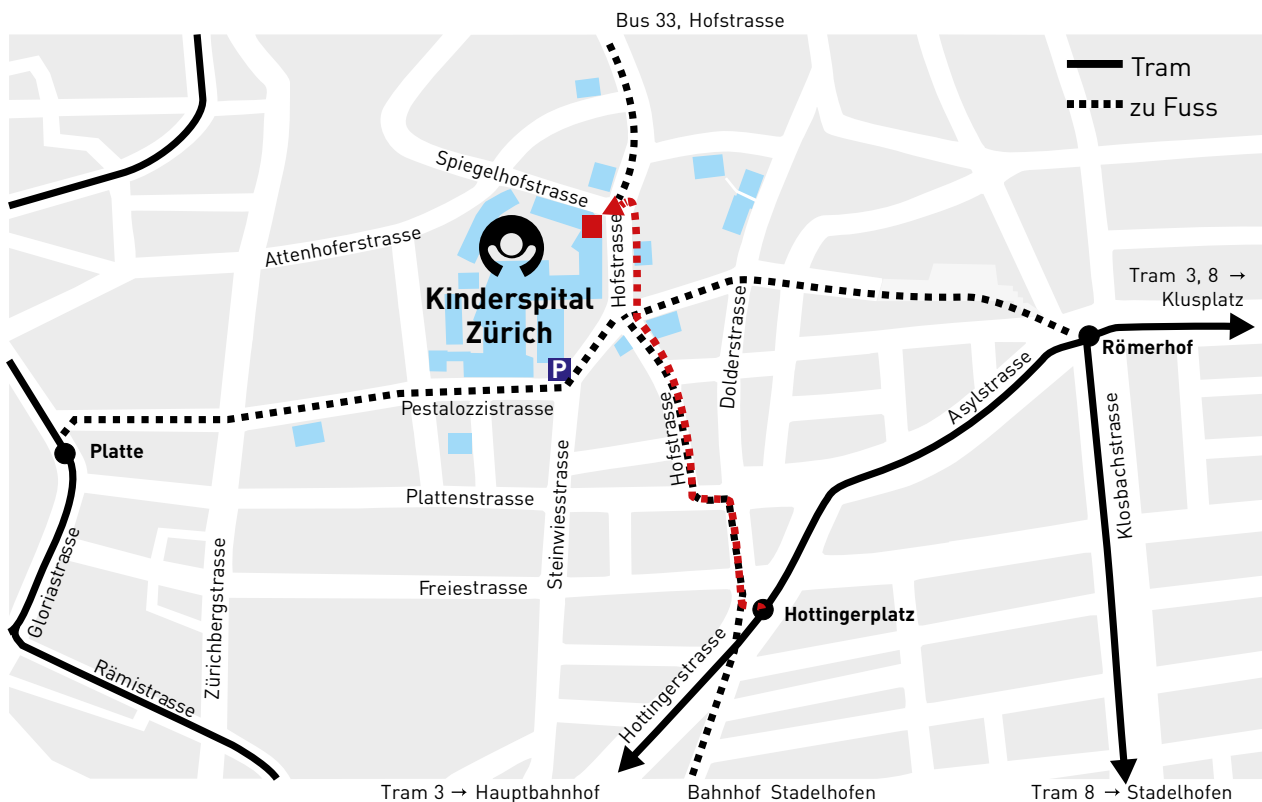
Swiss Society of Neonatology

Schweizerische Gesellschaft für Neonatologie  
Société Suisse de Néonatalogie  
Società Svizzera di Neonatologia  
[www.neonet.ch](http://www.neonet.ch)

## Thank you to our partners:



## Venue: Hörsaal (Auditorium) Kinderspital Zürich



Main train station: → Tram 3 direction Klusplatz to Hottingerplatz\*

→ Tram 6 direction Zoo to Platte\*

Stadelhofen: → Tram 8 direction Klusplatz to Römerhof\*

\*From these stops it is about a 10 minute walk to the children's hospital